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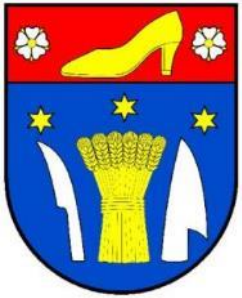
# Collection of kitchen biowaste in City of Partizánske

**Mgr. Lenka Beznáková, Friends of the Earth – SPZ, Slovakia**

*[beznakova@priateliazeme.sk](mailto:beznakova@priateliazeme.sk)*



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## City of Partizánske

Region: Trenčín

Population of the city: 20 388

Number of households: 8 822  
of this - family houses: 2 217  
apartment houses: 6 605



# Basic conditions for choosing a biowaste management system

1. Comfortable system for residents
2. High system efficiency
3. High purity of collected bio-waste
4. Self-sufficiency
5. Economic viability



# What was the potential of biowaste in City of Partizánske?



Family houses

- 86 kg kitchen biowaste/capita/year
- 130 kg garden biowaste/capita/year



Apartment  
houses

- 81 kg kitchen biowaste/capita/year

# Biowaste collection system in City of Partizánske



## Support of home composting

290 L composter + Seasonal collection + Collection Yard  
700 L composter  
800 L composter



## Door-to-door collection of kitchen biowaste

10 L basket  
and  
compostable bags

# Home composting in numbers



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## Basic information:

The year of the start of the campaign	2014
Number of households	2 217
Number of composters distributed	2 011
Number of lectures about home composting	41
Number of trained inhabitants	2 112
Number of households visited	813

## Results:

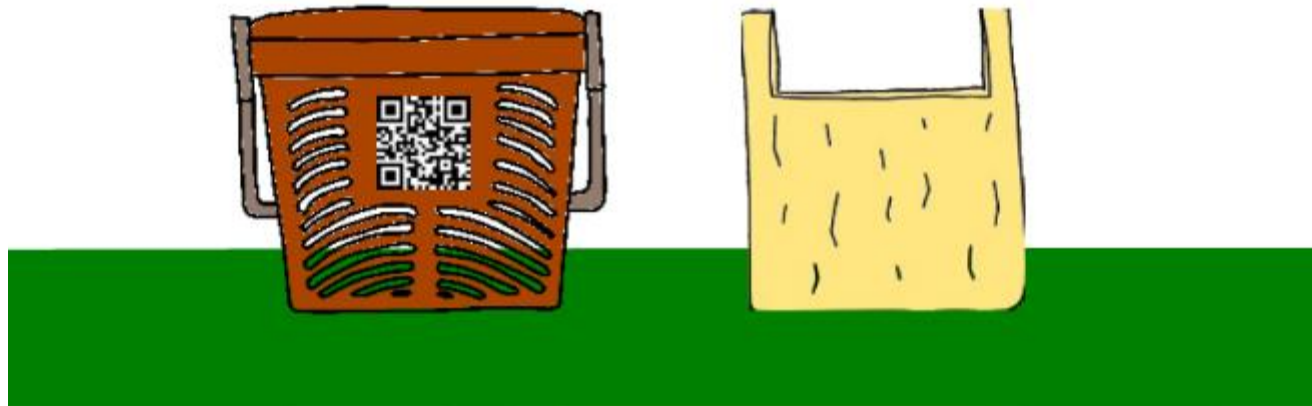
Decrease in the number of mixed waste in 7 years	118 kg/capita in family house/year
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# Collection of kitchen biowaste in apartment houses

## Tools of kitchen biowaste collection

Each household in the apartment houses received collection of kitchen biowaste for free:

- 10 L plastic basket with identification QR code
- 25 pc compostable bags with volume 10 L,  
(supply of bags for about 12 weeks; then further distribution)



# Collection of kitchen biowaste in apartment houses



## Distribution of tools

1. Direct distribution – in front of the doors of apartment houses
2. Distribution centres – places at each part  
of the town with apartment houses
3. In Municipal Office of Partizánske (yearly – 5 days in week)



# Collection of kitchen biowaste in apartment houses – direct distribution



# Collection of kitchen biowaste in apartment houses – distribution centres



# Collection of kitchen biowaste in apartment houses – registration during distribution

1. Assignment of a unique QR code placed on the basket to a specific household
2. A household cannot take more than 1 basket
3. No one who does not live in an apartment houses or does not live in Partizánske can get the basket
4. The QR code allows us to identify households that are participating in the collection and which are not



# 2 ways of kitchen biowaste collection

## a) Apartment houses with a lift

1. ZBIERAJTE



2. ZAVIAŽTE



3. VYLOŽTE



## b) Small apartment houses without a lift

1. ZBIERAJTE



2. ZAVIAŽTE



3. VYLOŽTE



Year-round  
collection  
twice a week  
—  
Monday  
and Friday

# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses





# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses



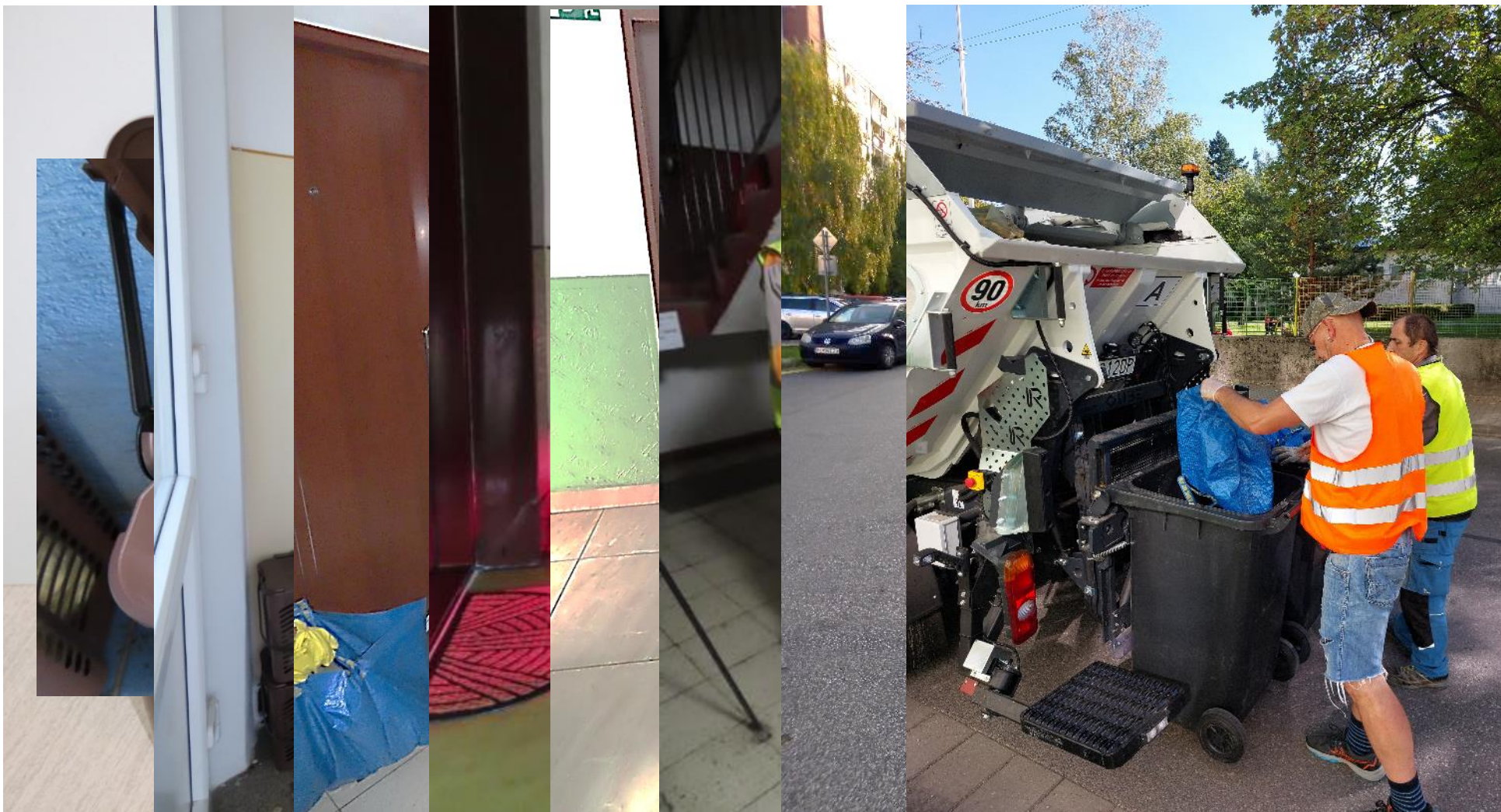
# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses



# Door-to-door collection of kitchen biowaste in apartment houses



# Collection of kitchen biowaste in numbers in 2023



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## Basic information: started in 2021

Number of households	6 605
Number of baskets distributed	4 303 ks (65,2 %)
Average involvement in collection	2 075 hous. (48,2 %)
Number of collections made	104
Total number of baskets unloaded	213 679

## Results:

Collected amount of kitchen biowaste	450,56 tons
Collected amount of kitchen biowaste per connected household	49,52 kg/capita/year
Pollution of sorted kitchen biowaste	0,07 %

# Economics of kitchen biowaste collection in apartment buildings in 2022



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Costs of collection and recovery	Sum in EUR	Savings and income	Sum in EUR
Collection and recovery	49 325 €	Savings for not landfilling mixed waste	30 456 €
"Runners" (collection service)	39 239 €	Reducing the frequency of mixed waste exports	79 500 €
Compostable bags	23 244 €	Contribution from the Environment Fund (national fund)	11 282 €
Registration system	1 440 €		
<b>TOTAL in 2022</b>	<b>113 248 €/year</b>	<b>TOTAL in 2022</b>	<b>121 238 €/year</b>
Conversion per 1 tonne	305 €/ton	Conversion per 1 tonne	326 €/ton

# Economics of kitchen biowaste collection in apartment buildings in 2022



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		Contribution from the	
Co	<b>Difference between savings/costs in 2022</b> <b>7 990 EUR = 21 EUR/1 ton of kitchen biowaste</b>		
Registration system	1 440 €		
<b>TOTAL in 2022</b>	<b>113 248 €/year</b>	<b>TOTAL in 2022</b>	<b>121 238 €/year</b>
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***"We do things in a way that makes sense  
for people, for the planet, for the future..."***



**Priatelia  
Zeme**  
SPZ

**Mgr. Lenka Beznáková**  
0902 131 202  
beznakova@priateliazeme.sk

**Priatelia Zeme – SPZ / Friends of the Earth - SPZ**  
0903 772 323  
spz@priateliazeme.sk

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